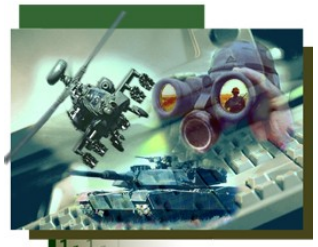
ESO

ASA(ALT) Environmental Support Office

Linking the Worlds of Acquisition and Installations

Antonia Giardina
SAAL-PE
Corrpro Companies, Inc.



Acquisition Requirements

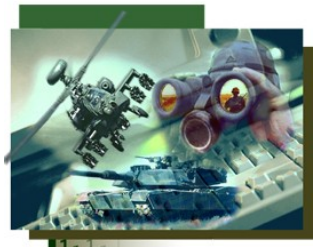
- **DoD 5000 Series**
  - Programmatic Environmental Safety and Health Evaluation (PESHE)
  - NEPA Schedule
  - Safety
  - Explosive Safety Plan
  - Demil and Disposal Plan
  - Hazardous Materials Management Program
  - Pollution Prevention Program
  - Compliance Review

ESO

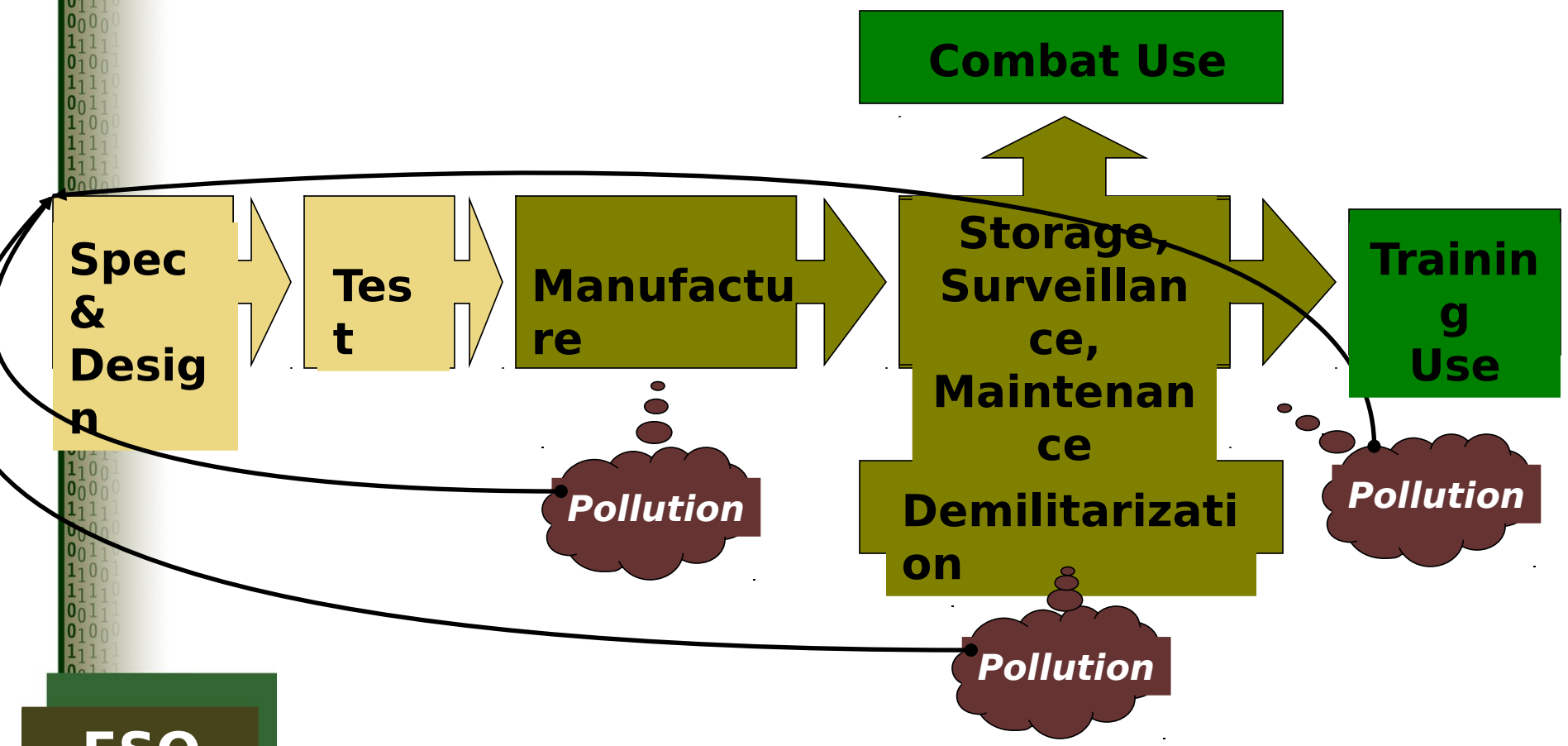
ESO Responsibilities

- **ASA(ALT) agent** for all acquisition and industrial base pollution prevention and affirmative procurement initiatives
  - Represents ASA(ALT) on Army Environmental Programs
  - Provides direct support to PEOs/PMs
  - Evaluates RDT&E Programs
  - Coordinates with ASA(I&E) and ACSIM on weapon system environmental supportability

ESO

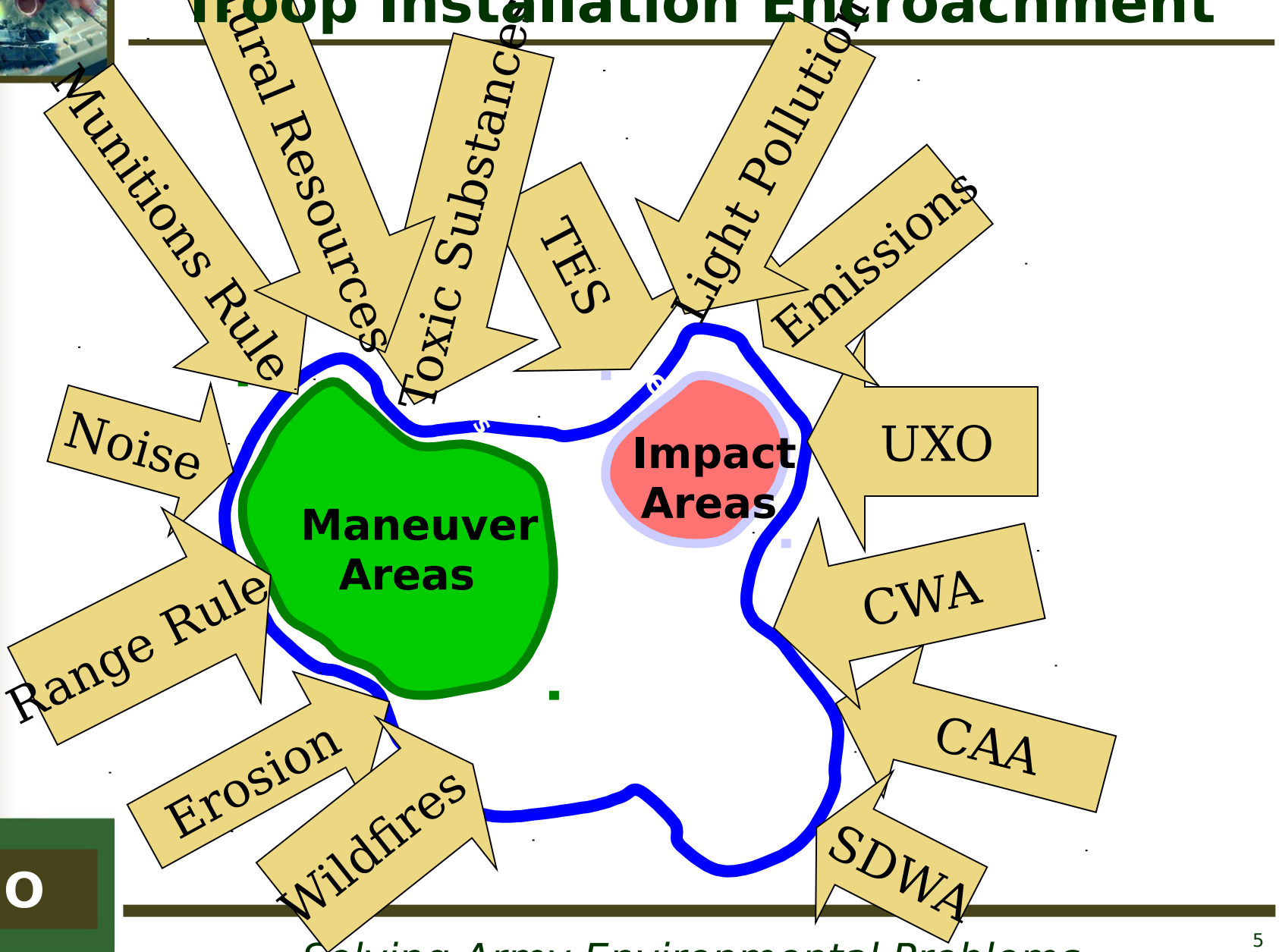


Traditional ESO Involvement

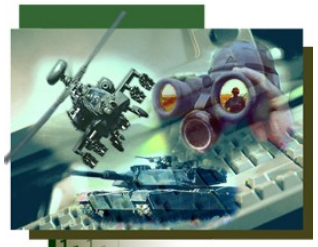


ESO

Troop Installation Encroachment



ESO



Key Army Messages

- Live Training and Testing Are Essential
- Encroachment-Induced Restrictions are limiting realistic preparations for combat

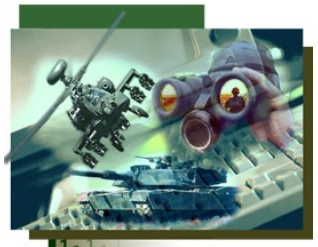
ESO

New ESO Perspective

What can we do in acquisition to ease this "encroachment" pressure?

- Ensure we field weapon systems that, by design, do not constrain training
- Accomplish this by minimizing their environmental burden
  - So installations can support them
  - So troops can train with them

ESO



Additional Benefits

- Environmentally friendly technologies will likely
  - decrease unit signature
  - increase unit stealth

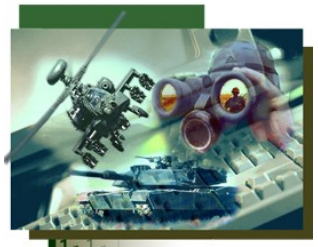
ESO

Information Gaps

Which installation environmental problems stem from weapon system use & maintenance?

- No Systematic Approach
  - Focus has been on facilities, not weapon systems
  - Installations receive weapon systems and then figure out how to make it work
  - No feedback on what is causing problems from an environmental perspective
- **Missing environmental linkages between the acquisition community and installations**

ESO



ESO Solution Part 1

Materiel Fielding Data

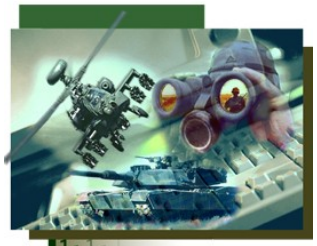
- ESO developed guide to aid PEOs/PMs in:
  - Materiel fielding planning, and
  - Meeting NEPA requirements
- Materiel Fielding Data provided to receiving installations for their planning purposes
  - Encourages feedback
  - Limitation: Reactive approach, too late to do real pollution prevention

ESO

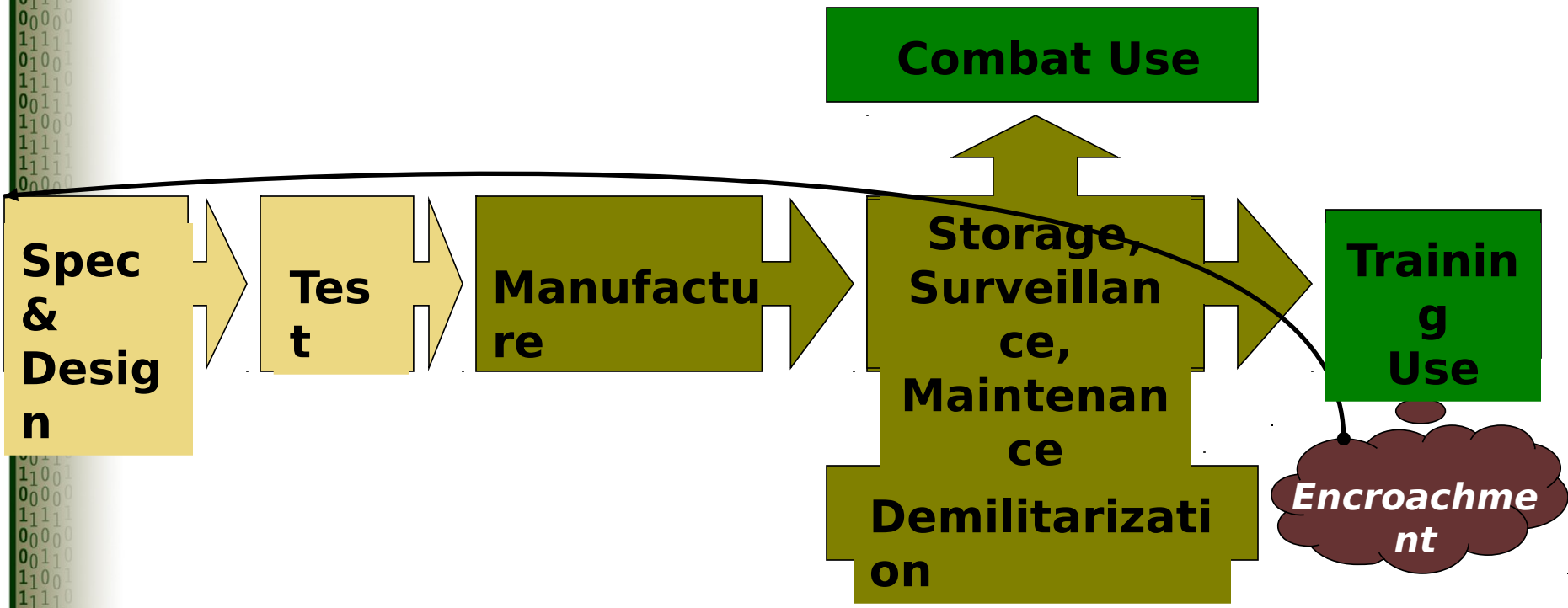
PM Brigade Combat Team/Ft. Lewis Meeting

- Solargizer
- Retread Tires
- Aqueous Parts Cleaners
- Water Reducible Coatings
- Manufacturer Take Back
- BioFuels vs JP-8 & BioLubricants
- Segregated Containment in Hulls
- Ethylene vs Propylene Glycol

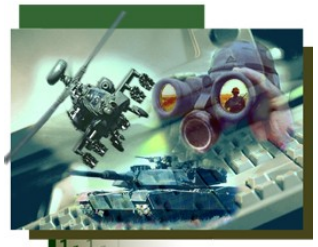
ESO



ESO Solution Part 2



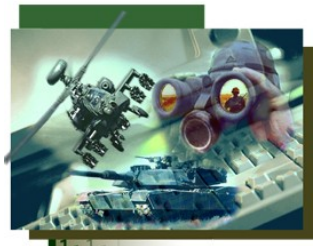
ESO



Influence Weapon System Design

- Insert environmental considerations EARLY
- Need data to:
  - Influence design
  - Influence technology development (e.g. Block 1+ and Block 2 modifications at future points in time)
  - Reduce risk of aggregate impacts when suite of systems or activities come together at a single location
- PM Unit of Action's (PM UA) Perspective
  - "The only way I can influence FCS design is if I know specifics about the installations"
- Proactive Approach

ESO



ODEP Response

TAB A - SUMMARY OF ENVIRONMENTAL IMPACTS

Media Area Installation	Air	Water	HW/HM	Natural Resources	Cultural Resources	Noise
Fort Knox	Medium	Medium	Medium	Low	Low	Medium
Fort Drum	Low	Low	Low	Low	Low	Medium
Fort Riley	Low	Medium	Medium	Low	Low	Medium
Fort Benning	Medium	Low	Medium	Low	Low	Medium
Fort Carson	Medium	Medium	Medium	Low	Low	Low
Fort Campbell	Medium	Medium	Medium	Low	Low	Medium
Fort Stewart	Medium	Low	Medium	Low	Low	Medium
Fort Bragg	Medium	Medium	Medium	Low	Low	Low
Fort Hood	Low	Medium	Medium	Low	Low	Low
Fort Lewis	Low	Low	Medium	Low	Low	Medium

Key:

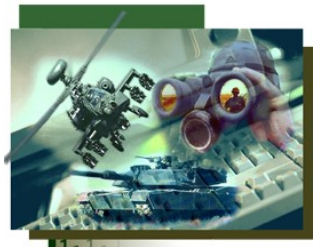
- High Impact to the FCS Program
- Medium Impact to the FCS Program
- Low Impact to the FCS Program

ESO

Supplemental NEPA Analysis

- Northwestern University NEPA Repository
  - All EISs since 1970
- “Mine” the repository for relevant information
  - Investigate the holdings
  - Develop a protocol for “mining”
- Goal -
  - Produce a useful knowledge base for acquisition community
  - Integrate “Mined” information into a matrix
- CECOM integrating mining operation into the environmental analysis of its systems

ESO



PM UA's Short-Term Approach

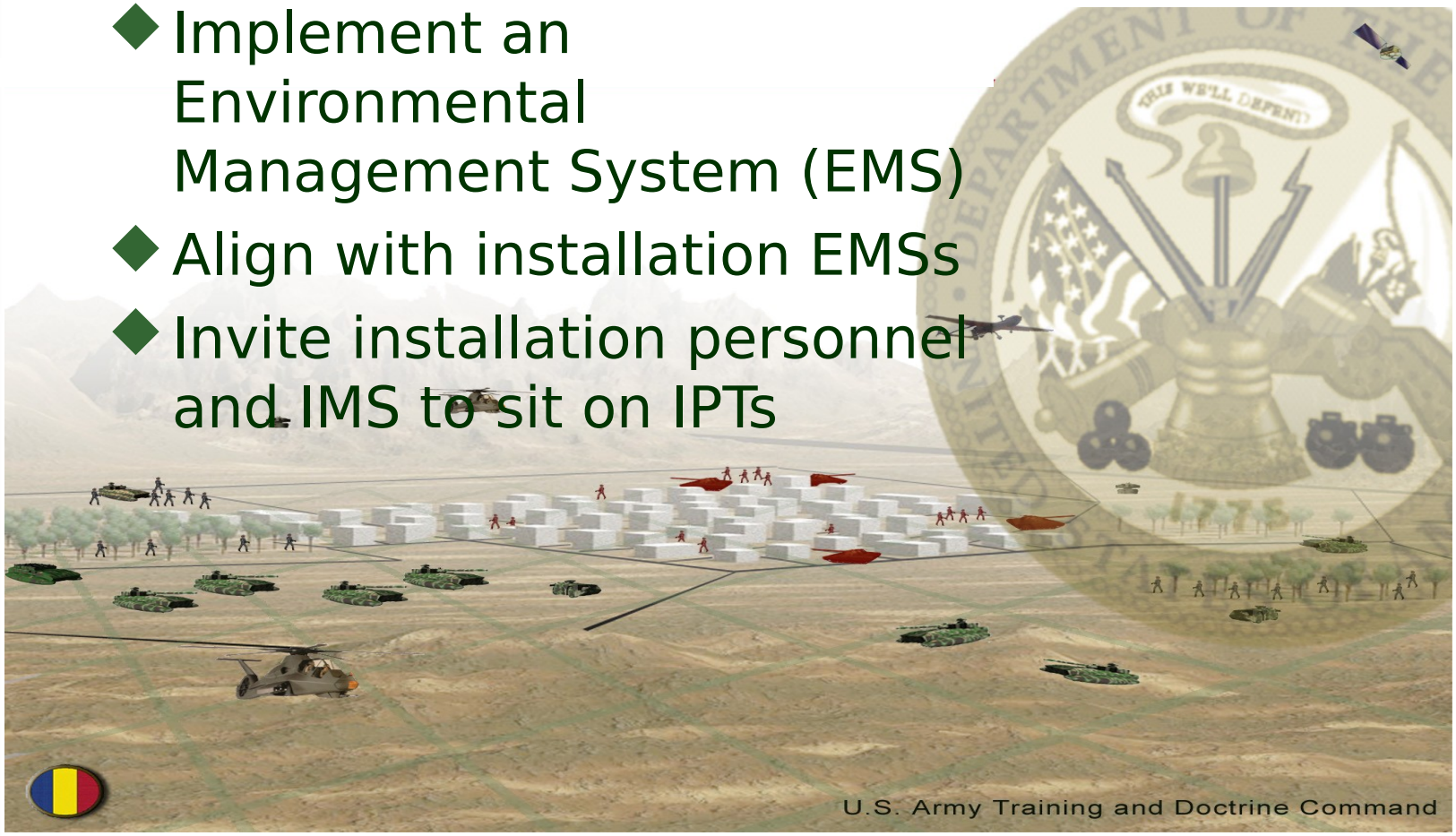
The following are prohibited for use in Future Combat Systems without approval:

- Asbestos
- Beryllium
- Cadmium
- Hexavalent Chromium
- Hydrazine
- Lead
- Mercury
- Methylene Chloride
- MEK
- Nickel
- Phenol
- TCE
- Toluene Diisocyanate
- Xylene

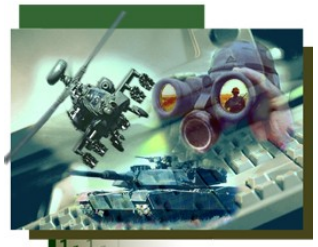
ESO

PM UA's Long-Term Approach

- Implement an Environmental Management System (EMS)
- Align with installation EMSs
- Invite installation personnel and IMS to sit on IPTs



ESO



Build a Systematic Approach

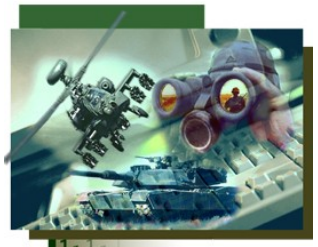
- ISO-14001 only refers to activities, products and services that the organization can *control* and be expected to *influence*
- Traditionally, installations have not *influenced* weapon system operational requirements
- Must create a systematic approach through which installations routinely communicate weapon system-related aspects and impacts (A&Is) up their Chain of Command (BaseOps and/or Mission) and to ESO

ESO

ESO LINK to Installations

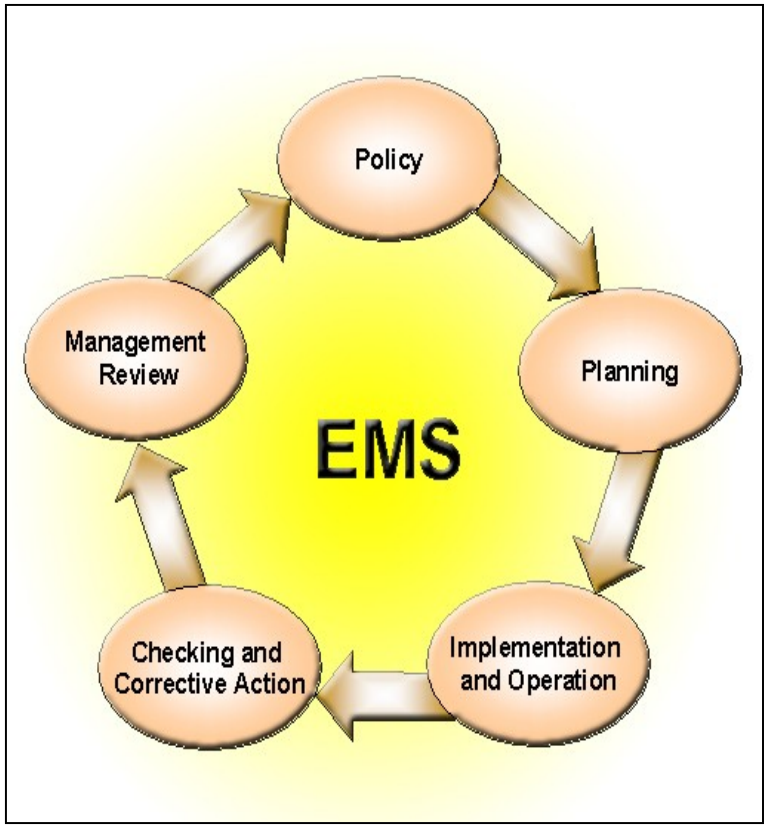
- Clearing house for weapon system-related A&Is at installations
- Understand how weapon systems affect installations' ability to meet their objectives/targets and sustainability goals
- Characterize and prioritize issues across installations and weapon systems through trade studies

ESO

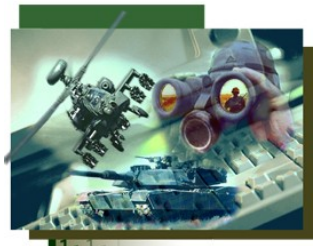


ESO LINK to Acquisition

- Feed findings to Acquisition community
  - i.e. aggregated installation A&Is become PEO/PM A&Is
- Provide constructive information and alternatives for consideration in new weapon system design or legacy system re-build/re-buy
  - Evolutionary Acquisition



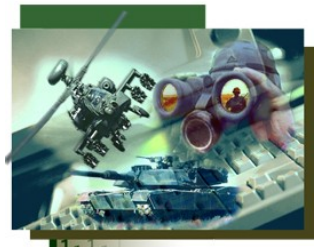
ESO



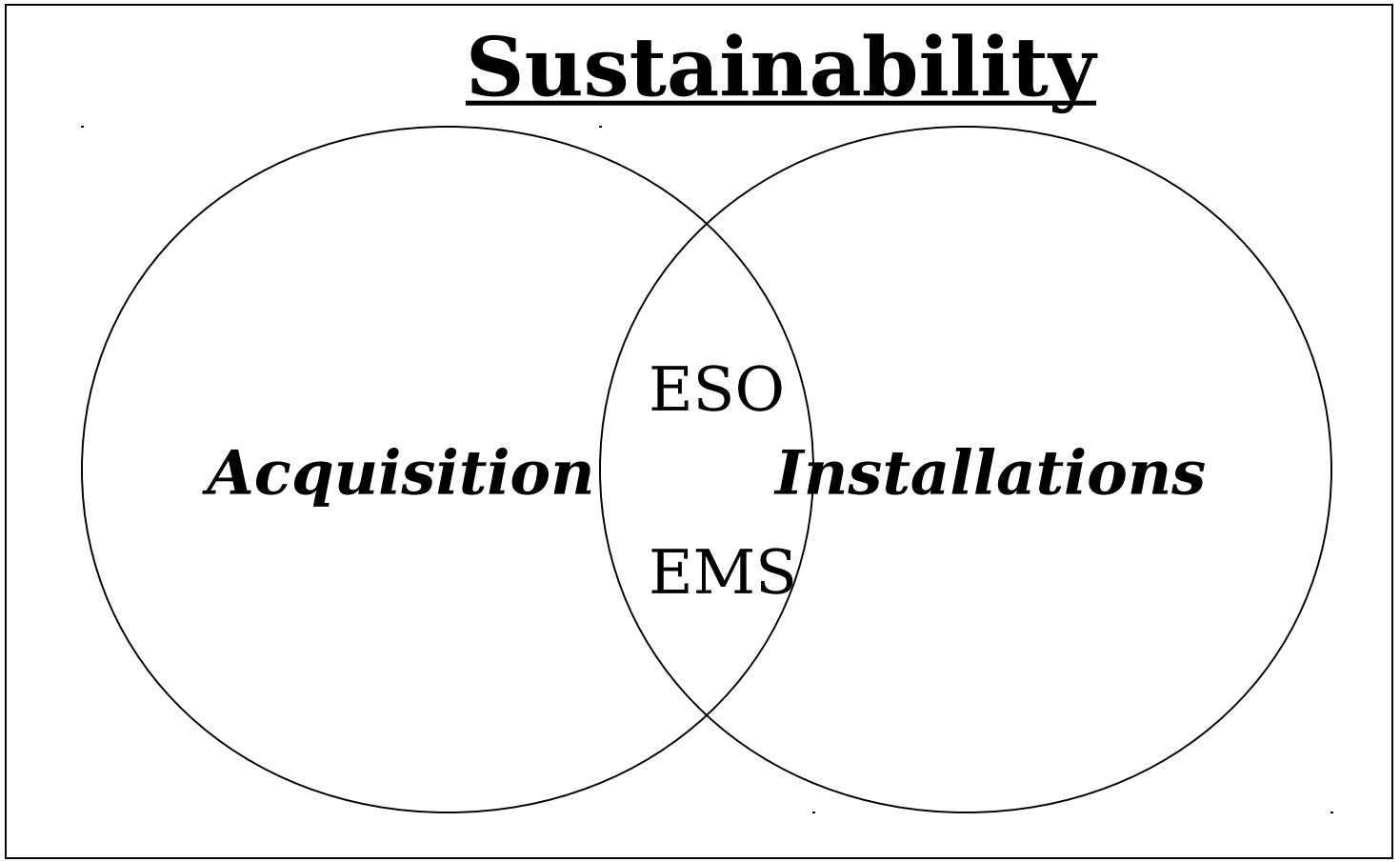
Leveraging Opportunities

- NEPA Analyses
- FORSCOM Sustainability Workshops
- Mission and P2 S&T dollars
- EMS Management Representative Training
- G-3 Environmental A&I Methodology for Army Training Ranges

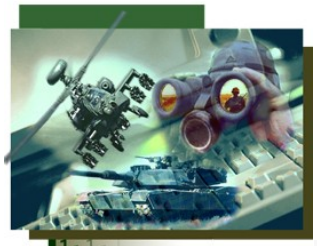
ESO



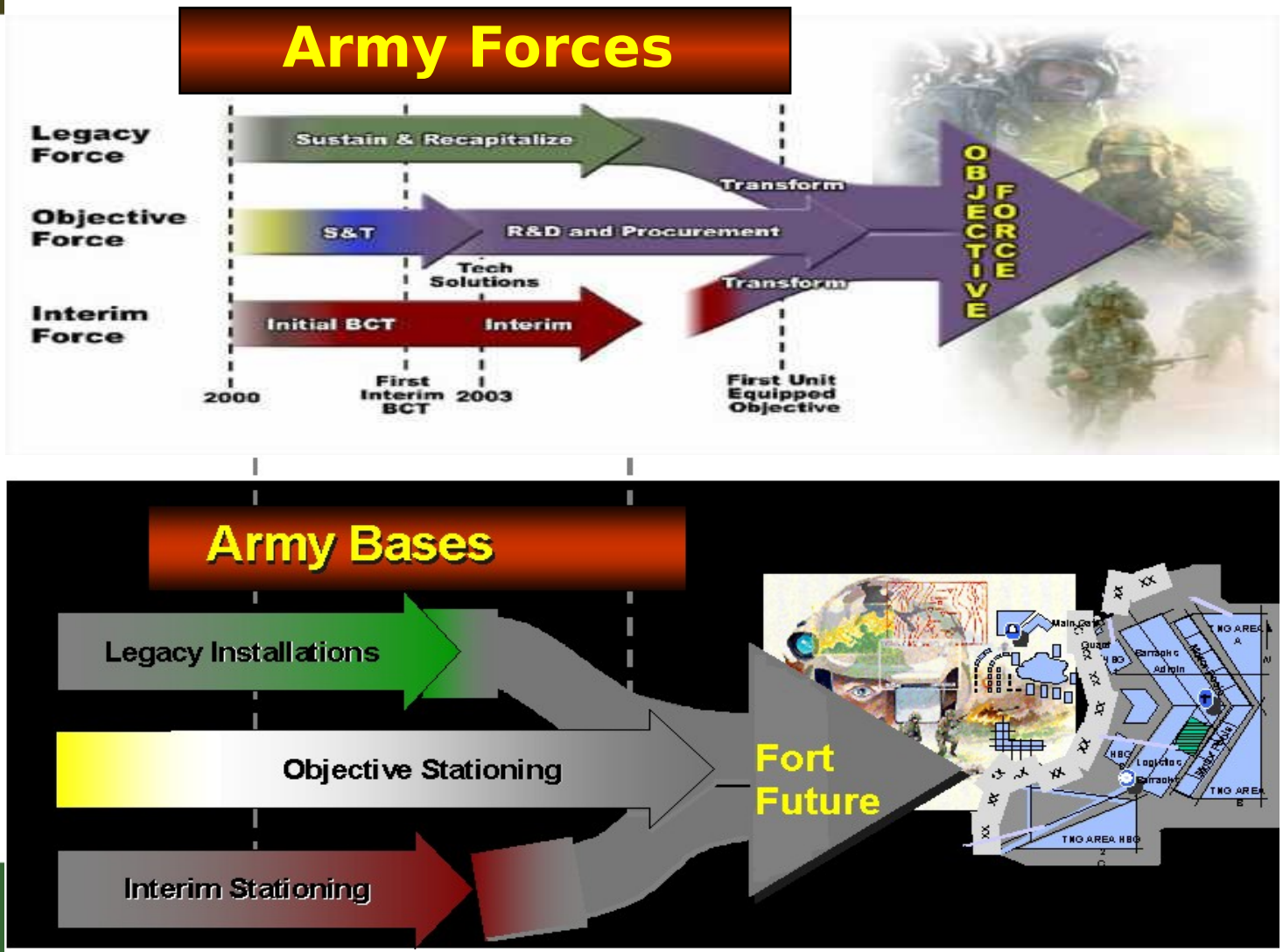
Concept



ESO



Transformation



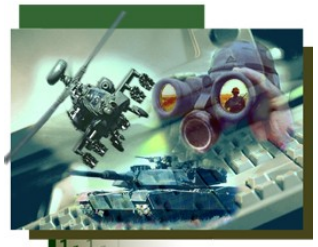
ESO

Solving Army Environmental Problems

Conclusion

- Establish installations as partners in acquisition and logistics processes rather than just recipients of weapon systems
- Will ensure the Army's transformation brings about a sustainable Ft. Future as well as sustainable Future Combat Systems

ESO



Acquisition Resources

- Our Information to You
  - ESO Webpage
    - http://www.environmentalsupportoffice.com/
  - PM Community of Practice
    - http://pmcop.ar.navy.mil/simplify/ev.php
  - ASA(ALT) Digital Library
    - http://library.saalt.army.mil/
- Your Information to Us
  - Antonia.Giardina@us.army.mil
    - 703-806-9250, DSN 656
  - George.H.Evans@us.army.mil
    - 336-269-1010

ESO